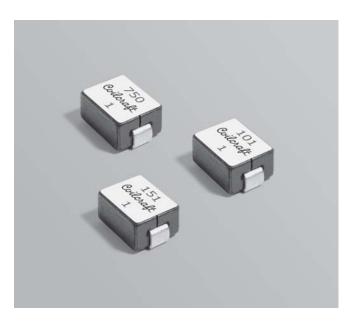
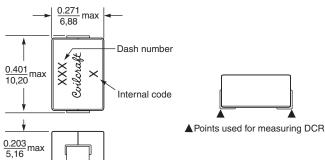


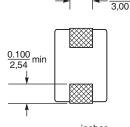
## Shielded Power Inductors – SLC1049



Part number <sup>1</sup>	L ±20%² (µH)	DCR ±5% <sup>3</sup> (mOhms)	SRF typ <sup>4</sup> (MHz)	Isat⁵ (A)	Irms <sup>6</sup> (A)
SLC1049-750ML_	0.075	0.273	200	61.0	43.0
SLC1049-101ML_	0.100	0.273	145	50.0	43.0
SLC1049-121ML_	0.125	0.273	140	37.0	43.0
SLC1049-151ML_	0.150	0.273	133	30.0	43.0



0.118







3.76

Dimensions are in inches



Specifications subject to change without notice. Please check our website for latest information.

Document 498-1 Revised 10/20/08

- · Designed foruse in multi-phase VRM/VRD regulators and high current/high frequency DC/DC converters.
- Requires only 70 mm<sup>2</sup> of board space; can handle up to 61 A

## Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss Terminations RoHS compliant matte tin over nickel over copper. Other terminations available at additional cost.

Weight 1.25 - 1.30 g

Ambient temperature -40°C to +85°C with Irms current, +85°C to +125°C with derated current

Storage temperature Component: -40°C to +125°C. Packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 250/7" reel; 1000/13" reel Plastic tape: 24 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.08 mm pocket depth PCB washing Only pure water or alcohol recommended

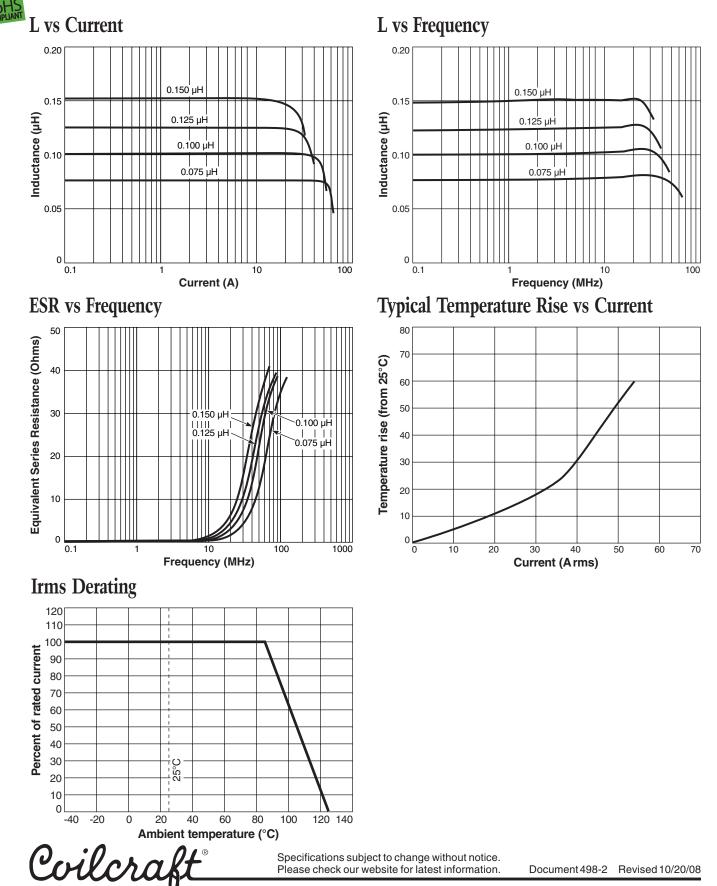
1. When ordering, please specify termination and packaging codes:

## SLC1049-151MLC

- Termination: L = RoHS compliant matte tin over nickel over copper. Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).
- Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 per full reel).
  - B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.
  - D = 13" machine-ready reel. EIA-481 embossed plastic tape (1000 per full reel). Factory order only, not stocked.
- 2. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4263B LCR meter or equivalent
- 3. DCR is measured on a micro-ohmmeter at points indicated in the dimensional diagram.
- 4. SRF measured with coils connected in series using an Agilent/HP 8753ES network analyzer or equivalent.
- 5. DC current at which the inductance drops 20% (typ) from its value without current.
- 6. Current that causes a 40°C temperature rise from 25°C ambient.
- 7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469 E-mail info@coilcraft.com Web http://www.coilcraft.com



## **SMT Power Inductors - SLC1049 Series**

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